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Catalogue No. 194

Advance Pages

Long Burning Arc Lamps

FOR

Direct and Alternating Constant
Potential Circuits

Detail Department

WESTINGHOUSE ELECTRIC &
MANUFACTURING COMPANY

Pittsburgh, Pa.

THE EICHBAUM PRESS
PITTSBURGH

10 9-3998 12F

LONG BURNING ARC LAMPS

DIRECT CURRENT—CONSTANT POTENTIAL

These lamps are of the enclosed type; that is, they have an inner globe which encloses the arc in an almost air-tight chamber. Free circulation of air around the arc is prevented, and consequently the carbons burn more slowly and their life is increased from about 10 hours to 100 hours or more. The cost of carbons and attendance is therefore greatly reduced. It is impossible for carbon dust to escape from the lamp while in use, and hence the danger from fire due to hot particles of carbon falling is entirely eliminated. The lamp does not flicker, flame or hiss, and it gives a steady and evenly diffused light. The mechanism is exceedingly simple, the lamps having no carbon rods, chains or gear wheels.

The mechanism consists of a double magnet, connected directly to a simple clutch, which grips the upper carbon. The outer globe is held in place by a very simple automatic locking device. Trimming is greatly facilitated by the convenient way in which the inner globe is arranged. The movement is well ventilated and protected from the heat of the arc. These lamps are built for both indoor and outdoor use. For outdoor use a plain housing is furnished and they may be hung without a protecting hood. For indoor work ornamental housings are employed. A cut-out switch is provided in the upper part of each lamp.

The carbons are so proportioned that the stub remaining in the upper holder may be used in the lower holder for the next trim; consequently it is only necessary to use one 12-inch carbon each time the lamp is trimmed.



Style No. 6960.
Indoor Type.

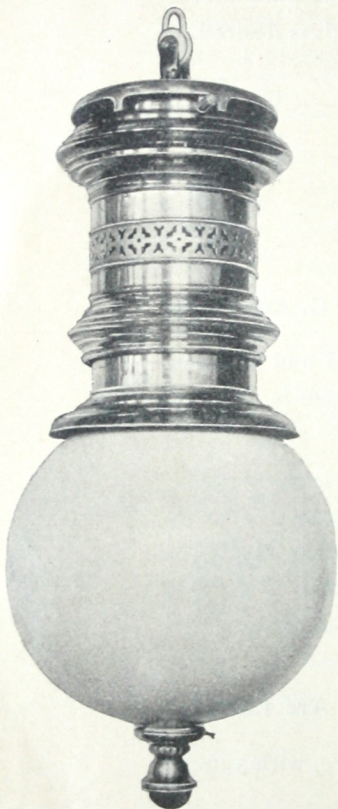
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LONG BURNING ARC LAMPS

ALTERNATING CURRENT—CONSTANT POTENTIAL

The cut opposite shows a new arc lamp for use on A. C. circuits. It is of the long burning type, and has a life of from 75 to 125 hours with one trimming.

This lamp possesses all of the advantages of the now well-known long burning type for use on direct current circuits, while it is more efficient. It has none of the disadvantages inherent in alternating lamps of the open arc form, as it is noiseless, and gives a uniform, steady, brilliant and evenly diffused light. The cost of carbons becomes insignificant because of their long life. One solid and one cored carbon is used for a trim; these are so proportioned that the stub left in the upper holder is used for a lower carbon for the next run. This lamp does not require an economy coil, as each lamp is provided with a choke coil, which reduces the line potential to that required by the arc, which is about 70 volts. This coil is provided with several loops, so that by proper selection the lamp may be connected to lines varying in potential from 95 to 120 volts, or may be adjusted for circuits of different alternations. These lamps are adjusted for 6 amperes, and consume 450 true watts. The method of supporting and clamping the globes is such that re-trimming is a very simple and quick operation. Each lamp is provided with a cut-out switch.



Style No. 7008.
Ornamental.

LONG BURNING ARC LAMPS--Continued
Alternating Current--Constant Potential Arc Lamps

These lamps are made for both indoor and outdoor service, as listed below.

Style No.	Description.	Code Word.	List Price.
7007	Pl'n, Outdoor	Tooverziek..	\$48 00
7008	Orn'l, Indoor	Tapaccio....	50 00

Outer Globe for Long Burning A. C. Arc Lamp

In ordering, specify kind of glass desired. The globes are supplied only in original packages containing one dozen each. They are carefully packed and shipped at purchaser's risk.

Style No.	Description.	Code Word.	List Price.
7009	Clear Glass.	Topadizas...	Per Dozen. \$15 00
"	Opal.	Tapadizo	17 00
"	Alabaster.	Topais	20 00

Inner Globe for Long Burning A. C. Arc Lamp

In ordering, specify kind of glass desired. We pack these globes very carefully and ship at purchaser's risk.

Style No.	Description.	Code Word.	List Price.
7010	Clear Glass.	Topanta.....	Per Dozen. \$6 00
"	Opal.	Toparais.....	6 50
"	Alabaster.	Toporan.....	7 00

Globe Net for Globe described above

These nets are made of brass wire, with $1\frac{1}{4}$ " mesh.

Style No.	Description.	Code Word.	List Price.
6969	Globe Net.	Toomeloos..	Per Dozen. \$4 00



Style No. 7009.



Style No. 7010.

Westinghouse Electric & Manufacturing Co.

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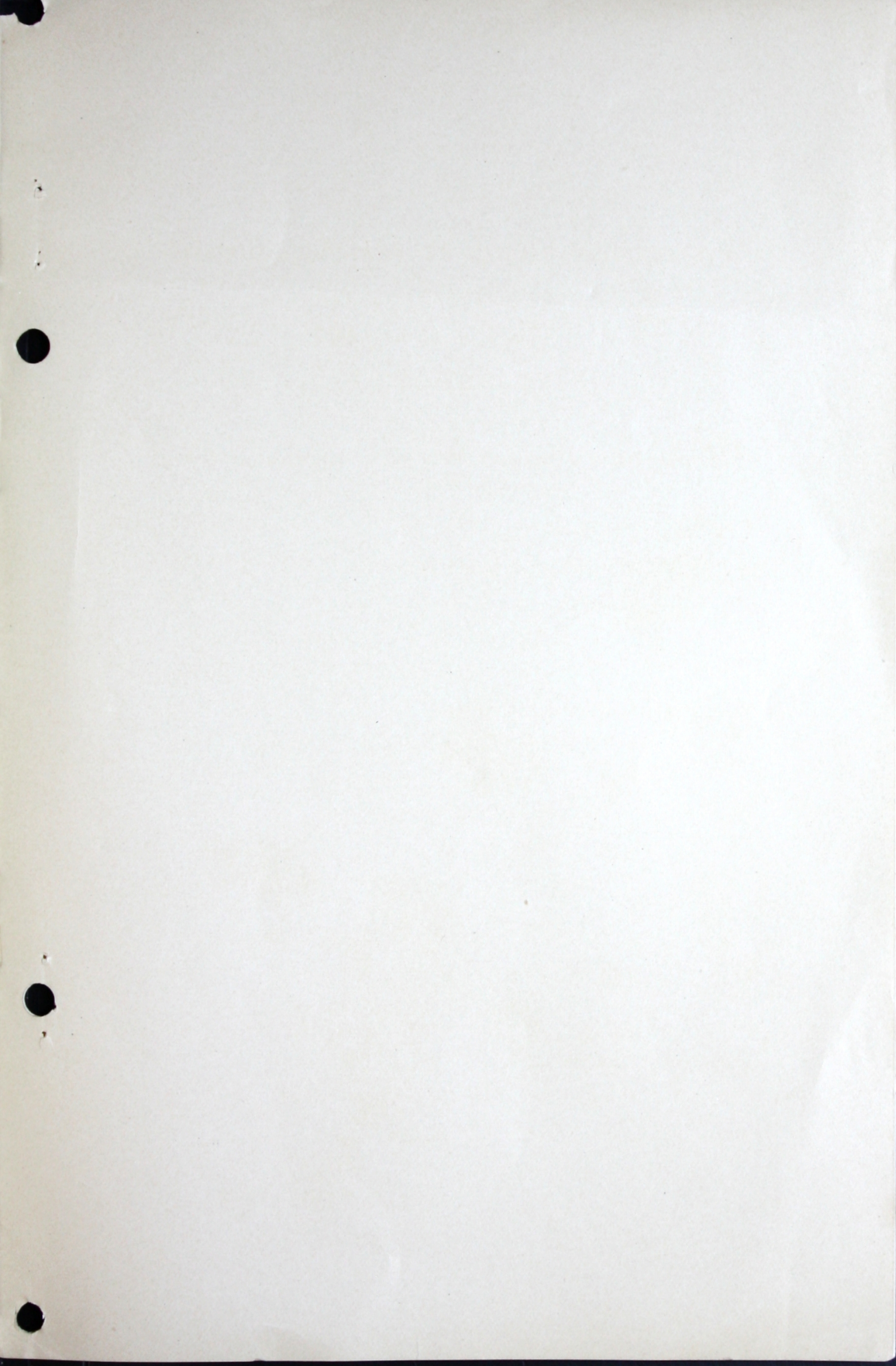
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